

Title (en)

ACTIVE SYSTEM FOR DAMPING MOTION OF A STEERING WHEEL

Title (de)

AKTIVES SYSTEM ZUR DÄMPFUNG DER BEWEGUNG EINES LENKRADES

Title (fr)

SYSTÈME ACTIF POUR AMORTIR LE MOUVEMENT D'UN VOLANT DE DIRECTION

Publication

EP 3274244 A1 20180131 (EN)

Application

EP 16714173 A 20160323

Priority

- US 201562137185 P 20150323
- US 2016023739 W 20160323

Abstract (en)

[origin: WO2016154285A1] A system (300) for controlling vibratory motion in a vehicle steering wheel (20) prone to oscillate in a given direction due to extraneous inputs at one or more frequencies. The system (300) has a steering wheel (20) of the type exhibiting a vibratory motion along a defined axis at one or more frequencies, at least one sensor for sensing the acceleration of the steering wheel (20) along the defined axis and an active control mechanism responsive to the output of the at least one sensor. The sensor is an accelerometer having a movable first mass (70) and a solenoid coil (56) which when activated moves the mass (70) in a direction opposite to the motion of the steering wheel (20) and at the frequency of motion of the steering wheel (20).

IPC 8 full level

B62D 7/22 (2006.01); **B62D 1/04** (2006.01); **F16F 7/10** (2006.01)

CPC (source: CN EP US)

B60Q 9/00 (2013.01 - CN); **B62D 1/046** (2013.01 - CN EP US); **B62D 7/222** (2013.01 - CN EP US); **F16F 7/1011** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2016154285A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2016154285 A1 20160929; CN 107428358 A 20171201; CN 107428358 B 20210716; EP 3274244 A1 20180131; US 10422399 B2 20190924; US 2018112734 A1 20180426

DOCDB simple family (application)

US 2016023739 W 20160323; CN 201680018038 A 20160323; EP 16714173 A 20160323; US 201615560512 A 20160323